

## FAX COVER SHEET

TO	Saket Daftuar
COMPANY	USPTO, Art Unit 2451
FAX NUMBER	15712738363
FROM	Lee & Hayes Spokane Office
DATE	2009-01-06 00:23:21 GMT
RE	SN 10/828400 (MS1-1960US)

## COVER MESSAGE

Please see the attached proposed agenda for a telephone interview with attorney Jake Scott of Lee & Hayes. We will contact you soon to schedule the interview. If you prefer, however, please feel free to contact us at (509) 944-4721 (ask for Pat). Thank you.

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO)**

<b>Serial Number</b>	10/828,400
<b>Confirmation Number</b>	4520
<b>Filing Date</b>	Apr 20, 2004
<b>Title of Application</b>	Peer-To-Peer (P2P) Mobility System and Method
<b>First Named Inventor</b>	Chuanxiong Guo
<b>Assignee</b>	Microsoft Corporation
<b>Group Art Unit</b>	2451
<b>Examiner</b>	Saket K Daftuar
<b>Attorney Docket Number</b>	MS1-1960US
<b>Nature of this Document</b>	Informal Communication in Preparation for Scheduling an Examiner Interview

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Dear Examiner Daftuar:

**[0001]** This communication provides an agenda for an interview of this matter. My assistant will be contacting you to schedule an interview. If you would prefer to schedule the interview, then please contact my assistant or me directly. Our contact info is on the signature page of this document. Thank you in advance for talking with me about this matter.

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**Interview Agenda:**

Discussion of proposed amendments

**Proposed Amendments**

**[0002]** Please see the attached Appendix of Proposed Claim Amendments. I would like to discuss your opinion regarding the proposed amendments in light of the currently cited reference, Hanson et al.

**[0003]** In the most recent office action you indicated that claims 1 and 4-20 are allowable, and that claims 21, 23, 25 and 30 are reject under §102(b) as being anticipated by Hanson and that claims 26-29 are objected to. You indicated that dependent claims 26-29 would be allowable and the objection would be withdrawn if 26 was amended to be an independent claim with claims 27-29 depending therefrom.

**[0004]** The Applicant's representative proposes an alternate approach and would like to discuss this approach. It is recommended that dependent claim 26 be incorporated into independent claim 21 and the dependency of claims 27-29 be changed to claim 21. The Applicant's representative respectfully asserts that this recommended course of action places all of the claims in condition for allowance.

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**[0005]** Thank you in advance for scheduling time for this interview. I look forward to discussing this with you.

Respectfully Submitted,

Dated: \_\_ \_\_

By: \_\_\_\_\_

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## **Appendix of Proposed Claim Amendments**

**21. (With Proposed Amendments)** A peer to peer system comprising first and second means for interacting as respective peers in a peer-to-peer fashion in a peer-to-peer system, wherein each said first and second means respectively has:

one or more close peers in the peer-to-peer system, wherein each said close peer has one or more neighbor peers (NP);

means for storing one identifier in memory for each of the one or more close peers, wherein the means for storing one identifier for each of the one or more close peers comprises a multilevel routing table cache (MRTC);

each level in the MRTC has a maximum number of entries;

each level in the MRTC represents a segment of a number space corresponding to an identifier of the respective first and second means;

the top level of the MRTC spans the entire number space;

each successively lower level contains successively smaller spans;

each said span in a level below the top level is a smaller segment than the entire number space;

each said span is clustered around one said identifier a corresponding said close peer; and

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the relative proximity between the close peers corresponds to the  
respective identifiers thereof; [[and]]

means for storing an array for each said close peer, wherein:

each said array includes one [[of]] or more entries; and

each said entry:

corresponds to one said NP; and

includes an identifier for the NP;

wherein the first and second means are close peers one to the  
other;

when the IP address of the first means changes so as to cause a  
break in an on[[ ]]going communication between the first and second  
means for longer than a predetermined threshold, each of the first and  
second means further comprises:

means for addressing a message for transmission to each NP  
of each close peer of the other of the first and second means for  
delivery of the message thereto via each NP, wherein the message  
includes the changed IP address thereof; and

means for:

receiving the message via the NP;

extracting the changed IP address of the other of the  
first and second means from the message; and

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resuming the on[[ ]]going communication using the changed IP address of the other of the first and second means.

**22. (Canceled)**

**23. (With Proposed Amendments)** The peer-to-peer system as defined in Claim 21, wherein, when the IP address of either of the first and second means has changed, said either of the first and second means respectively further comprises:

means for addressing a message for transmission to each said NP when communication can[[ ]]not be made, after a predetermined threshold, to the corresponding said close peer, wherein the message includes the changed IP address; and

means for:

receiving the message;

extracting the changed IP address from the message; and

communicating with the corresponding said close peer using the changed IP address.

**24. (Canceled)**

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**25. (Original)** The peer-to-peer system as defined in Claim 21, wherein each of the first and second means further comprises:

means for registering an identifier thereof with each of the close peers; and

means for receiving an identifier for each of the NP of each of the close peers.

**26. (Canceled)**

**27. (With Proposed Amendments)** The peer-to-peer system as defined in Claim ~~[[26]]~~21, wherein for the first means, when a message is to be sent to a peer in the peer to peer system having an identifier not found in the MRTC of the first means, the first means further comprises:

means for forming a message for a destination said peer for which the identifier thereof is not found in the memory, wherein the message includes the identifier of the destination said peer; and

means for addressing the message to an intermediate said peer for which the identifier thereof~~[[:]]~~ is in the memory~~[[;]]~~, and is the proximally closest to the identifier of the destination said peer.



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**28. (With Proposed Amendments)** The peer-to-peer system as defined in Claim ~~[[27]]~~21, wherein the proximally closest said identifier of the intermediate said peer is found in a portion of the memory selected from the group consist of:

one said entry in one said array; and  
the MRTC.

**29. (With Proposed Amendments)** The peer-to-peer system as defined in Claim ~~[[27]]~~21, wherein:

the message can be delivered to the destination said peer from the first means by transmission via a number of said peers that is not more than  $O(\log_k N)$  in average;

k is the factor by which the spans of each said successively lower level is successively smaller; and

N is the number of identifiers in an identifier naming space for the MRTC.

**30. (Original)** The peer-to-peer system as defined in Claim 21, wherein each said peer is selected from the group consisting of:

a cellular telephone;

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a computing device having a wired connection to the peer to peer system; and

a computing device having a wireless connection to the peer to peer system.